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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/697,202	10/30/2003	Michael J. Tsecouras	TI-35523	2202	
	7590 03/07/200 LUMENTS INCORPO		EXAMINER		
P O BOX 655474, M/S 3999			CORRIELUS, JEAN B		
DALLAS, TX	75205		ART UNIT	PAPER NUMBER	
		2611			
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	NTHS	03/07/2007	· PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)	<u></u>		
	10/697,202	TSECOURAS, MICHAEL J	١.		
Office Action Summary	Examiner	Art Unit	,		
	Jean B. Corrielus	2611			
The MAILING DATE of this communication		vith the correspondence address	-		
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by s' Any reply received by the Office later than three months after the nearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUN R 1.136(a). In no event, however, may a h. eriod will apply and will expire SIX (6) MO tatute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communicatio. BANDONED (35 U.S.C. § 133).			
Status					
_	20 Octobor 2002				
1)⊠ Responsive to communication(s) filed on 3 2a)□ This action is FINAL . 2b)⊠	This action is non-final.				
3) Since this application is in condition for allo		ters prosecution as to the merits i	e		
closed in accordance with the practice und	·	· · · · · · · · · · · · · · · · · · ·	3		
·		,			
Disposition of Claims					
4) Claim(s) 1-20 is/are pending in the applica					
4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed.	drawn from consideration.				
6)⊠ Claim(s) <u>1-6,9-11,13 and 15-18</u> is/are reject	etod .				
7) Claim(s) 7.8.12. 14.19 and 20 is/are object					
8) Claim(s) are subject to restriction ar					
·					
Application Papers	ŕ				
9) The specification is objected to by the Exan					
10)⊠ The drawing(s) filed on <u>10/30/03</u> is/are: a)[•	·			
Applicant may not request that any objection to	-,,	· ·			
Replacement drawing sheet(s) including the co			d).		
11) The oath or declaration is objected to by the	e Examiner. Note the attache	d Office Action or form P10-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
 Certified copies of the priority docum 	ents have been received.				
2. Certified copies of the priority docum	ents have been received in A	Application No			
3. Copies of the certified copies of the	3. Copies of the certified copies of the priority documents have been received in this National Stage				
application from the International Bu					
* See the attached detailed Office action for a	list of the certified copies no	received.			
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413) (s)/Mail Date			
3) Information Disclosure Statement(s) (PTO/SB/08)	5) D Notice of	Informal Patent Application			
Paper No(s)/Mail Date	6) Other:				

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DETAILED ACTION

Drawings

1. The drawings are objected to because the drawing quality is poor and therefore needs to be resubmitted. In addition, each label "figure" should be replaced by "FIG." Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Double Patenting

2. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or

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discovers any new and useful process ... may obtain <u>a</u> patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

3. Claim 13 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 12. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1, 3, 4 and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Shintani et al US Patent No. 6,490,001.

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As per claim 1, Shintani discloses a method and apparatus figs. 1-3 comprising: a controller circuit 31; a user interface 32 connected to the controller circuit 31 that provides user input to the controller 31 which indicates the user's selection of an RF channel see col. 8, lines 29-32 and 50-57; a RF tuner 12; and a programmable filter 223 that receives a signal from the RF tuner 12 and filter program settings from the controller 31 and then filters the signal from the RF tuner 12 based on the filter program settings received from the controller 31; wherein the program settings for the programmable filter 223 determined by the controller depend on the RF channel selected by the user see fig. 3A.

As per claim 3, the programmable filter 223 is a digital filter since it is configured to process a digital signal generated by the digitizer 221.

As per claim 4, Shintani teaches a speaker 44 for outputting the signal from the filter 223. The speaker inherently has to include an amplifier in order to boost the signal energy.

As per claim 15, see claim 1. Note in Shintani teaches that the filter 223 is part of a DSP 22 see fig. 2.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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7. Claims 2 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shintani et al US Patent No. 6,490,001 in view of Melanson US Patent publication No. 20040100328.

As per claim 2, as applied to claim 1 above, Shintani et al discloses every feature of the claimed invention but does not explicitly teach the additional limitation of a switched mode power supply that supplies power to the circuit and source of unwanted noise. Melanson discloses a switched mode power supply 115 that supplies power to the circuit and a source of unwanted noise see section 0009. Given that fact, it would have been obvious to one skill in the art to incorporate such a teaching in Shintani et al because in order for the various components of device to work it needs to be provided adequate power signal and the teaching of Melanson would be a good source of power supply to energize the circuit.

As per claim 16, see claim 2.

8. Claims 9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shintani et al US Patent No. 6,490,001.

As per claim 9, as applied to claim 1 above, Shintani et al discloses every feature of the claimed invention but does not teach that the filter is a programmable switched capacitor filter. However, it is well known in the art to implement a filter as a switched capacitor filter. Given that fact, it would have been obvious to one skill in the art to implement the digital filter as a programmable switched capacitor filter in order to take advantage of its enhanced technological features.

As per claim 11, see claim 9.

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9. Claims 5-6, 10, 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shintani et al US Patent No. 6,490,001 in view of Yamamoto et al US Patent publication No. 20060133777.

As per claim 5, as applied to claim 1 above, Shintani et al discloses every feature of the claimed invention but does not explicitly teach the digital filter outputs a filtered digital signal to an D/A converter, and an analog signal from the D/A converter is amplified by an analog class A/B amplifier. Yamamoto discloses a digital filter 120 outputs a filtered digital signal to an D/A converter 121, and an analog signal from the D/A converter is amplified by an analog amplifier 122. It would have been obvious to one skill in the art to incorporate such a teaching in Shintani et al in order to format the signal in a manner suitable to be processed by an analog circuit device such as an analog speaker. Furthermore, it would have been obvious to use a type A/B amplifier so as to satisfy system design requirement.

As per claim 6, see claim 5 above and addition, one would have been motivated to used a class D amplifier the motivation would have been to satisfy system design requirements.

As per claim 10, see claim 6.

As per claim 17, see claim 5.

As per claim 18, see claim 6.

Allowable Subject Matter

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10. Claims 7-8, 12, 14, 19 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B. Corrielus whose telephone number is 571-272-3020.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jean B Corrielus
Primary Examiner
Art Unit 2611

3-5-07